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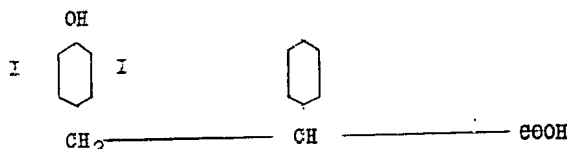
SOVIET CHEMISTS SYNTHESIZE
TWO NEW MEDICINALS

M. D. Mashkovskiy

[A Digest.]

A communication from the All-Union Chemopharmaceutical Scientific Research Institute imeni S. Ordzhonikidze (VNIKhFI) describes two new medicinals, bilitrast and urosul'fan which have been synthesized there. The production and distribution of the two substances have been accepted by the Scientific Medical Council of the Ministry of Health USSR.

Bilitrast or beta-(4-hydroxy-3,5-diiodophenyl)-alpha-phenyl propionic acid



is a light white powder which is insoluble in water and easily soluble in alcohol and other organic solvents. The melting point is 157-158 degrees centigrade. Bilitrast is supplied in the form of granules. The commercial grade is a white crystalline substance which is osoluble in water with difficulty, but easily soluble in dilute acids and alkalis, including bicarbonate. The melting point of commercial bilitrast is 155-157.5 degrees.

Bilitrast is used to establish contrast in X-ray cholecystography and cholelithochography. It has been found very useful for that purpose, but is contraindicated in nephrities, uremia, diseases of the liver, and acute gastroenteritis.

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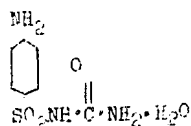
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Urosul'fan or sulfanil'ic acid has the following constitution:



It is a chemotherapeutic agent which has been found especially useful in infections produced by coli bacilli and staphylococci. It is particularly effective in diseases of the urinary tracts and is well resorbed from the gastrointestinal tract, with the result that a rather high concentration is established in the blood. The concentration of urosul'fan in the kidneys exceeds that in the blood by a factor of 3 to 8.

Urosul'fan is used in cystitis, pyelitis, cystopyelitis, pyelonephritis, infectious hydronephroses, and other infections of the urinary tracts. When there are impediments to the flow of urea, these must be removed in order that the desired effect may be achieved by urosul'fan therapy. Urosul'fan is prescribed in the form of powder or tablets to be taken internally and the dose is 1.5 grams three times a day. In difficult cases, the dose may be raised to 3 grams. The treatment is continued for periods ranging from 6 days to 12-14 days depending on conditions. The substance is well-tolerated by patients: dyspepsia, cyanosis, changes of peripheral blood, and deposition of the substance in urinary tracts do not occur. Clinical experience has shown that urosul'fan is one of the best sulfa drugs for the treatment of urinary infections.

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